BRUHATH BANGALORE MAHANAGARA PALIKE

Dasarahalli Zone

E-MB

Name of Work:	Improvements of CC Drain & Covering slab Kempegowda nagara 3rd main road in Dasarahalli Ward No 15
Estimated Cost:	50.00 Lakhs
Head of Account:	P-1771, POW Work
Job Code No :	015-20-000009
A.S No. & Date:	EE/DD/AS/127/19-20, Dt.17.06.2019
T.S No. & Date:	CE/DZ/TS/124/19-20, Dt.02.02.2019
W.O No. & Date:	EE/DD/WO/515/19-20, Dt.21.01.2020
Name of Agency	Sri S M Eregowda

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

EMB

Name of Work: Improvements of CC drain & Covering Slab Kempegowda Nagara 3rd Main road in Dasarahalli Ward No 15

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Pre-measurement								
1	KSRRB M200-Dismtling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonary, cement concrete, wood work,steel work, including T&P and scaffolding whereever necessary, sorting the dismanlet material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification Lime/Cement concrete I. By Manual Means C. Prestressed /Reinforced cement concrete Grade M-20 & above (P-139, It 18.19) PWD SR 2018-19								
	Standard school Drain wall	Cum	2	30.00	0.15	0.60	5.40		
			2	24.20	0.15	0.60	4.36		
	bottom concrete		1	30.00	1.00	0.30	9.00		
			1	24.20	0.15	0.30	1.09		
	Eagle bakery road		1	26.00	1.00	0.30	7.80		
	K.G.nagar 3rd main								
	Eagle bakery road to 7th crs								
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	Left side		1	15.70	1.00	0.30	4.71		
	Right side		1	15.70	1.00	0.30	4.71		
	7th cross to 6th crs								
	Left side		1	19.00	1.00	0.30	5.70		
	Right side		1	19.00	1.00	0.30	5.70		
	6th cross to 5th crs								
	Right side		1	5.40	1.00	0.30	1.62		
	Left side		1	22.00	1.00	0.30	6.60		
	Right side		1	22.00	1.00	0.30	6.60		
	5th cross to 4th crs								
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	31.00	1.00	0.30	9.30		
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	33.00	1.00	0.30	9.90		
	4th cross to 3rd crs								
	Left side		1	31.00	1.00	0.30	9.30		
	Right side		1	30.00	1.00	0.30	9.00		
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	3rd cross to NH 4 service road								

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Recommended 4/1 AE

	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	Left side		1	30.00	1.00	0.30	9.00		
	Right side		1	30.00	1.00	0.30	9.00		
	Culvert @7th cross		2	5.40	0.20	1.00	2.16		
			1	5.40	1.20	0.15	0.97		
	Culvert @3th cross		2	4.70	0.20	1.00	1.88		
			1	4.70	1.20	0.15	0.85		
	4th crs road		1	21.20	1.60+2.00/2	0.15	5.72		
			1	25.80	2.20+1.90/2	0.15	7.93		
	3rd crs road		1	24.40	1.40+2.20/2	0.15	6.59		
							270.89	1801.74	488071.00
	Pre-measurement								
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.143/I.19.1 PW, P & IWTD -SR 2018-19)								
	Desilting of drain	Cum							
	Standard school		1	30.00	0.50	0.15	2.25		
			1	24.20	0.50	0.20	2.42		
	Eagle bakery road		1	26.00	0.50	0.20	2.60		
	K.G nagar 3rd main								
	Eagle bakery road to 7th crs								
	Left side		1	30.00	0.50	0.20	3.00		
	Right side		1	30.00	0.50	0.20	3.00		
	Left side		1	30.00	0.50	0.20	3.00		
	Right side		1	30.00	0.50	0.20	3.00		
	Left side		1	15.70	0.50	0.20	1.57		
	Right side		1	15.70	0.50	0.20	1.57		
	7th cross to 6th crs								
	Left side		1	19.00	0.50	0.20	1.90		
	Right side		1	19.00	0.50	0.20	1.90		
	6th cross to 5th crs								
	Right side		1	5.40	0.50	0.20	0.54		
	Left side		1	22.00	0.50	0.20	2.20		
	Right side		1	22.00	0.50	0.20	2.20		
	5th cross to 4th crs								
	Left side		1	30.00	0.50	0.15	2.25		
	Right side		1	31.00	0.50	0.15	2.33		
	Left side		1	30.00	0.50	0.20	3.00		
	Right side		1	33.00	0.50	0.20	3.30		
	4th cross to 3rd crs								
	Left side		1	31.00	0.50	0.15	2.33		
	Right side		1	30.00	0.50	0.15	2.25		
	Left side		1	30.00	0.50	0.20	3.00		
	Right side		1	30.00	0.50	0.15	2.25		
	Left side		1	30.00	0.50	0.15	2.25		
	Right side		1	30.00	0.50	0.20	3.00		
	Left side		1	30.00	0.50	0.15	2.25		

Right side			1	30.00	0.50	0.15	2.25		
Left cross to NH 4 service road									
Left side			1	30.00	0.50	0.20	3.00		
Right side			1	30.00	0.50	0.15	2.25		
Left side			1	30.00	0.50	0.15	2.25		
Right side			1	30.00	0.50	0.20	3.00		
Culvert @7th cross			1	5.40	0.50	0.25	0.68		
Culvert @3th cross			1	4.70	0.50	0.20	0.47		
8th crs road			1	21.20	1.60+2.00/2	0.15	5.72		
			1	25.80	2.20+1.90/2	0.15	7.93		
3rd crs road			1	24.40	1.40+2.20/2	0.15	6.59		
							93.49	147.40	13780.00
Pre measurement									
Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2018-19, P.No.155, I No.20.18)									
8th crs road		cum	1	21.20	1.60+2.00/2	0.23	8.78		
			1	25.80	2.20+1.90/2	0.23	12.16		
3rd crs road			1	24.40	1.40+2.20/2	0.23	10.10		
6th crs road			1	26.30	3.30+3.50/2	0.23	20.57		
			1	20.60	4.20+4.30/2	0.23	20.14		
							71.75	2140.77	153592.00
Pre-measurement									
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.222/I.27.18) PWD - SR 2018-19)									
Standard school		Cum	1	30.00	1.00	0.20	6.00		
			1	24.20	1.00	0.20	4.84		
Culvert @ 7th cross			1	5.40	1.50	0.20	1.62		
Culvert @ 3rd cross			1	4.70	1.50	0.20	1.41		
8th crs road			1	21.20	1.60+2.00/2	0.20	7.63		
			1	25.80	2.20+1.90/2	0.20	10.56		
3rd crs road			1	24.40	1.40+2.20/2	0.23	10.10		
6th crs road			1	26.30	3.30+3.50/2	0.23	20.57		
			1	20.60	4.20+4.30/2	0.23	20.14		
							82.88	5799.81	480716.00
Pre-measurement									
KSRRB M2200-6. Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 [P. no.229 - I. no.28.8.2]PWD - SR 2018-19)									
		Tonne							
Description of work		Dia	Length	Nos	8mm	10mm			

For RCC Drain								
Standard school								
Main steel	12mm	2.70	580		1566.00			
Dist steel	10mm	58.00	27	1566.00				
Eagle bekary road								
Main steel	12mm	0.80	330		264.00			
Dist steel	10mm	33.00	8	264.00				
Eagle bakery road to NH4 service road								
Main steel	12mm	2*0.80	3597		5755.20			
Dist steel	10mm	2*359.7	8	5755.20				
			Mtr	7585.20	7585.20			
	10mm	7585.20	0.62	Kgs	4702.82			
	12mm	7585.20	0.89	Kgs	6750.83			
				Kgs	11453.65			
				M.T	11.45			
culvert								
Description of work	Dia	Length	Nos	10mm	12mm			
culvert mat								
culvert @ 7th cross								
Main steel	12mm	5.40	15		81.00			
Dist steel	10mm	1.50	54	81.00				
culvert @ 3rd cross								
Main steel	12mm	4.70	15		70.50			
Dist steel	10mm	1.50	47	70.50				
culvert wall								
culvert @ 7th cross								
Main steel	12mm	4*2	54		432.00			
Dist steel	10mm	5.40	27	145.80				
culvert @ 3rd cross								
Main steel	12mm	4*2	47		376.00			
Dist steel	10mm	4.70	27	126.90				
			Mtr	424.20	959.50			
10mm	424.20	0.62	Kgs	263.00				
12mm	959.50	0.89	Kgs	853.96				
			Kgs	1116.96				
			Kgs	11453.65				
			Kgs	12570.61				
			M.T	12.57				
				Kgs	12570.61			
				M.T	12.57			972518=00
				12570.61	Qty	12.57	77368.17	972565.00
Pre-measurement								
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200.(PWD SR 2018-19 P.no-271, It No 37.59.20)								
Drain bottom(bed) concrete	Cum							
Standard school		1	30.00	0.90	0.15	4.05		
		1	24.20	0.90	0.15	3.27		

Eagle bakery road		1	26.00	0.60	0.10	1.56		
Kempegowda nagar 3rd main								
Eagle bakery road to 7th crs								
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
Left side		1	15.70	0.60	0.10	0.94		
Right side		1	15.70	0.60	0.10	0.94		
7th cross to 6th crs								
Left side		1	19.00	0.60	0.10	1.14		
Right side		1	19.00	0.60	0.10	1.14		
6th cross to 5th crs								
Right side		1	5.40	0.60	0.10	0.32		
Left side		1	22.00	0.60	0.10	1.32		
Right side		1	22.00	0.60	0.10	1.32		
5th cross to 4th crs								
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	31.00	0.60	0.10	1.86		
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	33.00	0.60	0.10	1.98		
4th cross to 3rd crs								
Left side		1	31.00	0.60	0.10	1.86		
Right side		1	30.00	0.60	0.10	1.80		
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
3rd cross to NH 4 service road								
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
Left side		1	30.00	0.60	0.10	1.80		
Right side		1	30.00	0.60	0.10	1.80		
		Measurement continued on						
Wall concrete(sides)								
Standard school(left)		2	30.00	0.15	0.75	6.75		
Right side		2	24.20	0.15	0.75	5.45		
Eagle bakery road(left)		2	26.00	0.15	0.35	2.73		
Kempe Gowdanagar 3rd main		Measurement continued on						
Eagle bakery road to 7th crs								
Left side		2	30.00	0.15	0.35	3.15		
Right side		2	30.00	0.15	0.30	2.70		
Left side		2	30.00	0.15	0.35	3.15		
Right side		2	30.00	0.15	0.40	3.60		
Left side		2	15.70	0.15	0.35	1.65		
Right side		2	15.70	0.15	0.40	1.88		
7th cross to 6th crs								
Left side		2	19.00	0.15	0.35	2.00		
Right side		2	19.00	0.15	0.40	2.28		

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6th cross to 5th crs								
Right side		2	5.40	0.15	0.35	0.56		
Left side		2	22.00	0.15	0.35	2.31		
Right side		2	22.00	0.15	0.40	2.64		
5th cross to 4th crs								
Left side		2	30.00	0.15	0.40	3.60		
Right side		2	31.00	0.15	0.35	3.26		
Left side		2	30.00	0.15	0.40	3.60		
Right side		2	33.00	0.15	0.35	3.47		
4th cross to 3rd crs								
Left side		2	31.00	0.15	0.35	3.26		
Right side		2	30.00	0.15	0.40	3.60		
Left side		2	30.00	0.15	0.40	3.60		
Right side		2	30.00	0.15	0.35	3.15		
Left side		2	30.00	0.15	0.40	3.60		
Right side		2	30.00	0.15	0.35	3.15		
Left side		2	30.00	0.15	0.35	3.15		
Right side		2	30.00	0.15	0.40	3.60		
3rd cross to NH 4 service road								
Left side		2	30.00	0.15	0.35	3.15		
Right side		2	30.00	0.15	0.40	3.60		
Left side		2	30.00	0.15	0.35	3.15		
Right side		2	30.00	0.15	0.40	3.60		
Culvert @7th cross bottom		1	5.40	1.50	0.15	1.22		
culvert wall		2	5.40	0.20	0.90	1.94		
Ramp		2	5.40	0.60	0.30	1.94		
Culvert @3th cross bottom		1	4.70	1.50	0.15	1.06		
culvert wall		2	4.70	0.20	0.90	1.69		
Ramp		2	4.70	0.60	0.30	1.69		
						157.22	7562.99	1189084.00
Detailed measurment								
Supplying and fixing precast rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc. complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.								
Standard school	Sqm	1	30.00	0.90		27.00		
		1	24.20	0.90		21.78		
Eagle bakery road		1	26.00	0.90		23.40		
K.G nagar 3rd main								
Eagle bakery road to 7th crs								
Left side		1	30.00	0.90		27.00		
Right side		1	30.00	0.90		27.00		
Left side		1	30.00	0.90		27.00		
Right side		1	30.00	0.90		27.00		
Left side		1	15.70	0.90		14.13		
Right side		1	15.70	0.90		14.13		
7th cross to 6th crs								
Left side		1	19.00	0.90		17.10		
Right side		1	19.00	0.90		17.10		
6th cross to 5th crs								

Right side		1	5.40	0.90		4.86			
Left side		1	22.00	0.90		19.80			
Right side		1	22.00	0.90		19.80			
5th cross to 4th crs									
Left side		1	30.00	0.90		27.00			
Right side		1	31.00	0.90		27.90			
Left side		1	30.00	0.90		27.00			
Right side		1	33.00	0.90		29.70			
4th cross to 3rd crs									
Left side		1	31.00	0.90		27.90			
Right side		1	30.00	0.90		27.00			
Left side		1	30.00	0.90		27.00			
Right side		1	30.00	0.90		27.00			
Left side		1	30.00	0.90		27.00			
Right side		1	30.00	0.90		27.00			
Left side		1	30.00	0.90		27.00			
Right side		1	30.00	0.90		27.00			
3rd cross to NH service road									
Left side		1	30.00	0.90		27.00			
Right side		1	30.00	0.90		27.00			
Left side		1	30.00	0.90		27.00			
Right side		1	30.00	0.90		27.00			
						723.60			
Detailed - measurment					Qty limited to	393.30	2361.90	928935.00	
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) ((P.No.176, I.No.22.6.1 of PW,P&IWTD SR 2018-19)										
4th crs road	cum	1	21.20	1.60+2.00/2	0.15	5.72			
		1	25.80	2.20+1.90/2	0.15	7.93			
3rd crs road		1	24.40	1.40+2.20/2	0.15	6.59			
2nd crs road		1	26.30	3.30+3.50/2	0.15	13.41			
		1	20.60	4.20+4.30/2	0.15	13.13			
						46.79	5574.16	260821.00	
Detailed - measurment	Measurement continued on								
Vaccum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift (P.No.176 -I.No.22.7]PWD - SR 2018-19)									

4th crs road	sqm	1	21.20	1.60+2.00/2		38.16		
		1	25.80	2.20+1.90/2		52.89		
3rd crs road		1	21.40	1.40+2.20/2		43.92		
6th crs road		1	26.30	3.30+3.50/2		89.42		
		1	20.60	4.20+4.30/2		87.55		
						311.94	77.10	24051.00
Detailed - measurment								
Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 136 Item No. 17.1 PWD SR 2018-19								
	Cum	qty vide item no 1				270.89		
		qty limited to				160.00	74.67	11947.00
						Sub Total		1523562.00
						GST Charge 12%		542827.00
						Grand Total		5066389.00

4523460 = 00
542815 = 00
5066275 = 00

Assistant Engineer
Ward No 15

Assistant Executive Engineer
T. Dasarahalli Sub Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.